

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR02/02361

**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 H01L 21/20**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H01L, C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

KOREAN PATENTS(UTILITIES) AND APPLICATIONS FOR INVENTIONS(DEVICES) SINCE 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

KIPONET, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR99-29506U(ACE HIGH TECH CO., LTD.) 26 JULY 1999 SEE THE ABSTRACT AND FIGURE2	1-6
Y	JP04-196129A(SHARP CORP.) 15 JULY 1992 SEE THE WHOLE DOCUMENT	1-6
A	JP01-286448A(HITACHI LTD.) 17 NOVEMBER 1989 SEE THE ABSTRACT	1-6
A	JP04-10431A(FUJI ELECTRIC CO., LTD.) 14 JANUARY 1992 SEE THE ABSTRACT	1-6
A	JP60-198761A(NEC CORP.) 18 OCTOBER 1985 SEE THE WHOLE DOCUMENT	1-6
Y	KR01-110746A(SHERMAN ARTHUR) 13 DECEMBER 2001 SEE THE ABSTRACT AND CLAIMS	1-3
Y	JP60-120515A(HITACHI LTD.) 28 JUNE 1985 SEE THE WHOLE DOCUMENT	1-3

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
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 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search

17 MARCH 2003 (17.03.2003)

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR02/02361

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR99-29506U	26.07.99	NONE	
JP04-196129A	15.07.92	NONE	
JP01-286448A	17.11.89	NONE	
JP04-10431A	14.01.92	NONE	
JP60-198761A	18.10.85	NONE	
KR01-110746A	13.12.01	US6342277B EP1183406A	29.01.02 06.03.02
JP60-120515A	28.06.85	NONE	